ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/98 Date Received: 09/23/98

Project: Metro Self Monitor, PO# M77207

Date Samples Extracted: 09/24/98 Date Extracts Analyzed: 09/24/98

RESULTS FROM THE ANALYSIS OF THE WATER SAMPLE FOR CHROMIUM, COPPER, NICKEL, ZINC USING METHOD 6010

Samples Processed Using Method 3005A

Results Reported as mg/L (ppm)

Sample ID	<u>Chromium</u>	Copper	<u>Nickel</u>	<u>Zinc</u>
M77207	0.39	0.31	0.41	< 0.05
Method Blank	< 0.05	< 0.05	< 0.05	< 0.05

ENVIRONMENTAL CHEMISTS

Date of Report: 09/25/98 Date Received: 09/23/98

Project: Metro Self Monitor, PO# M77207

QUALITY ASSURANCE RESULTS FOR TOTAL METALS BY INDUCTIVELY COUPLED PLASMA (ICP) (METHOD 6010)

Laboratory Code: 809093-01 (Duplicate)

						Relatr	ve		
			Reporting	Sample	Duplica	te Percei	nt 7	Acceptar	ice
	Analyte	Table 1 and 1	Units	Result	Result	Differe	nce	Criteria	a
1	Chromium		mg/L (ppm)	0.39	0.45	14	1833	0-20	
	Copper		mg/L (ppm)	0.31	0.32	3		0-20	
	Nickel		mg/L (ppm)	0.41	0.46	11		0-20	
	Zinc		mg/L (ppm)	< 0.05	0.06	nm		0-20	

Laboratory Code: 809093-01 (Matrix Spike)

	Reporting	Spike	Sample	% Recov	ery % Recov	ery	Acceptance	,	
Analyte	Units	Level	Result	MS	MSI)	Criteria	RPD)
Chromium	mg/L (ppm)	5	0.39	104	106		80-120	2	-
Copper	mg/L (ppm)	5	0.31	103	108		80-120	5	
Nickel	mg/L (ppm)	10	0.41	103	105		80-120	2	
Zinc	mg/L (ppm)	5	< 0.05	108	108		80-120	0	

Laboratory Code: Laboratory Control Sample

	Reporting	Spike	% Recove	ry % Recove	ery Acceptanc	e	
Analyte	Units	Level	LCS	LCSD	Criteria	RPD	<u> </u>
Chromium	mg/L (ppm)	5	109	108	80-120	1	
Copper	mg/L (ppm)	5	111	107	80-120	4	
Nickel	mg/L (ppm)	10	110	108	80-120	2	
Zinc	mg/L (ppm)	5	112	111	80-120	1	

nm - The analyte was not detected in one or more of the duplicate analyses. Therefore, calculation of the RPD is not applicable.

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 25, 1998

DUPLICATE COPY

INVOICE #98ACU0925-1

Accounts Payable Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

RE: Project Metro Self Monitor, PO# M77207: Results of testing requested by Gerry Thompson for material submitted on September 23, 1998.

FEDERAL TAX ID (b) (6)

ENVIRONMENTAL CHEMISTS

James E. Bruya, Ph.D. Charlene Jensen, M.S. Bradley T. Benson, B.S. Kurt Johnson, B.S.

3012 16th Avenue West Seattle, WA 98119-2029 TEL: (206) 285-8282 FAX: (206) 283-5044 e-mail: fbi@isomedia.com

September 25, 1998

Gerry Thompson, Project Manager Alaskan Copper Works 628 South Hanford St. Seattle, WA 98134

Dear Mr. Thompson:

Included are the results from the testing of material submitted on September 23, 1998 from your Metro Self Monitor, PO# M77207 project. Any samples that may remain are currently scheduled for disposal in 30 days. If you would like us to return your samples or arrange for long term storage at our offices, please contact us as soon as possible.

We appreciate this opportunity to be of service to you and hope you will call if you should have any questions.

Sincerely,

FRIEDMAN & BRUYA, INC.

Manuel Marti Project Manager

Enclosures

FRIEDMAN & BRUYA, INC. 3012 16th Avenue West Seattle, WA 98119-2029 (206) 285-8282

· FORMS/COC

809093

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SAMPLE CHAIN OF CUSTODY

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SAMPLERS (signaturé)						PROJECT LOCATION	1 - 3 - 3 - 3
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REMARKS				\		PLE DISPOSAL INFORM	
						Dispose after 30 days Return Samples Call for Instructions	
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06/09/97